

Title (en)

BACKLIGHT UNIT AND LIQUID CRYSTAL DISPLAY INCLUDING THE SAME

Title (de)

RÜCKLICHT EINHEIT UND FLÜSSIGKRISTALLANZEIGE DAMIT

Title (fr)

UNITÉ DE RÉTROÉCLAIRAGE ET AFFICHEUR À CRISTAUX LIQUIDES COMPRENANT CETTE UNITÉ

Publication

EP 2537064 A4 20130814 (EN)

Application

EP 10846223 A 20101012

Priority

- US 30651410 P 20100221
- KR 20100022199 A 20100312
- KR 2010006982 W 20101012

Abstract (en)

[origin: US2011205464A1] A liquid crystal display includes a liquid crystal display panel, a backlight and a cover. The backlight includes optical sheets that are configured to be mounted to the cover using a plurality of holes provided on the optical sheet that material to corresponding protrusions provided on the cover. The holes and protrusions are configured to reduce damage or misalignment to the optical sheet that may be caused by heat generated inside the liquid crystal display.

IPC 8 full level

G02F 1/13357 (2006.01); **F21V 8/00** (2006.01); **G02F 1/1335** (2006.01)

CPC (source: CN EP KR US)

G02B 6/005 (2013.01 - CN EP US); **G02B 6/0085** (2013.01 - CN EP US); **G02B 6/0088** (2013.01 - CN EP US); **G02F 1/1336** (2013.01 - KR); **G02F 1/133608** (2013.01 - CN EP KR US); **G02B 6/0051** (2013.01 - CN EP US); **G02B 6/0053** (2013.01 - CN EP US); **G02B 6/0055** (2013.01 - CN EP US); **G02B 6/008** (2013.01 - CN EP US); **G02F 1/133322** (2021.01 - CN EP US)

Citation (search report)

- [XI] US 2005254236 A1 20051117 - FU SHIH-CHE [TW], et al
- [I] US 2007297195 A1 20071227 - HU CHE-CHANG [TW]
- [A] US 2003223020 A1 20031204 - LEE YOUNG-JAE [KR]
- See references of WO 2011102585A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 2011205464 A1 20110825; **US 8625049 B2 20140107**; CN 102859424 A 20130102; CN 104597659 A 20150506; EP 2537064 A1 20121226; EP 2537064 A4 20130814; EP 2537064 B1 20150401; EP 2851742 A1 20150325; EP 2851742 B1 20190206; EP 3495879 A1 20190612; EP 3495879 B1 20201202; EP 3761110 A1 20210106; EP 3761110 B1 20231129; KR 20110103074 A 20110920; US RE47135 E 20181120; US RE47541 E 20190730; US RE49403 E 20230131; WO 2011102585 A1 20110825

DOCDB simple family (application)

US 86805310 A 20100825; CN 201080066322 A 20101012; CN 201510011873 A 20101012; EP 10846223 A 20101012; EP 14004097 A 20101012; EP 19153724 A 20101012; EP 20193171 A 20101012; KR 20100022199 A 20100312; KR 2010006982 W 20101012; US 201414536540 A 20141107; US 201514967790 A 20151214; US 201916436417 A 20190610